

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A power converter, comprising:

a series transformer ~~with its~~ having a primary winding connected in series with a line and having a secondary winding;

multiple array transformers having respective primary and secondary windings, the primary windings being connected in series with and to the secondary winding of this the series transformer;

normally-on switches respectively connected in series with ~~the~~ corresponding ends of each of the primary windings of the array transformers;

normally-off current bypass devices respectively connected in parallel with the corresponding series connections of each of the primary windings of the array transformers and the switches ~~at their~~ connected to the ends of the primary winding of the corresponding array transformer;

AC-DC converter units, each AC-DC converter unit having their an AC sides severally side connected to each of the secondary windings winding of one of the array transformers; and

mutually independent DC circuits ~~severally~~ respectively connected to ~~the a DC sides side~~ of one of the AC-DC converter units, wherein, by turning on the current bypass device of the primary winding of a specified specific array transformer and turning off the switches at the ends of that the primary winding it is possible to isolate of the specific array transformer, the specified specific array transformer and the AC-DC converter unit connected to it the specific array transformer are isolated.

2. (Currently Amended) ~~A~~ The power converter according to claim 1, wherein including a plurality of the AC-DC converter units connected to each of the secondary-winding windings of each of the array transformers on their at the AC sides are plural and on of the AC-DC converter units, wherein the DC sides of the plurality of AC-DC converter units of connected to the secondary-winding windings of each of the array transformers is provided are connected to each of a respective common DC circuit, and the common DC circuit is independent of the

~~common DC circuits provided on~~ connected to the DC sides of the plurality of respective AC-DC converter units connected to the secondary windings of the other array transformers being independent of each other.

3. (Currently Amended) ~~A~~ The power converter according to claim 1, wherein each of the array transformers are each made up of includes a plurality of transformers connected in series.

4. (Currently Amended) A power converter, comprising:
multiple array transformers having ~~their~~ respective primary and secondary windings, the primary windings being connected to a line in series and to a line;
normally-on switches respectively ~~connected respectively~~ in series with ~~the~~ corresponding ends of each of the primary windings of the array transformers;
normally-off first current bypass devices connected in parallel with ~~the series connections of the~~ corresponding primary windings of the array transformers and the switches connected to ~~their~~ the ends of the primary winding of the corresponding array transformer;
AC-DC converter units, each AC-DC converter unit ~~having their an AC sides side~~ respectively connected to ~~each of the secondary windings~~ winding of one of the array transformers;
mutually independent DC circuits respectively ~~connected respectively to the a DC sides side of each one~~ of the AC-DC converter units; and
a normally-off second current bypass device connected in parallel with all of the series-connected array transformers, wherein, by turning on the first current bypass device of the primary winding of ~~a specified~~ specific array transformer and turning off the switches at the ends of ~~that the primary winding it is possible to isolate of the specific array transformer, the specified~~ the primary winding of the specific array transformer, the specified specific array transformer and the AC-DC converter unit connected thereto to the specific array transformer are isolated.

5. (Currently Amended) ~~A~~ The power converter according to claim 4, wherein including a plurality of the AC-DC converter units connected to each of the secondary-winding windings of each of the array transformers on their at the AC sides-are plural and on of the AC-DC converter units, wherein the DC sides of the plurality of AC-DC converter units-of connected to the secondary-winding windings of each of the array transformers-is provided are connected to each of a respective common DC circuit, and the common DC circuit is independent of the common DC circuits-provided-on connected to the DC sides of the plurality of respective AC-DC converter units-connected to the secondary windings of the other array transformers being independent of each other.

6. (Currently Amended) ~~A~~ The power converter according to claim 4, wherein each of the array transformers-are each made up of includes a plurality of transformers connected in series.